

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B05112021-1</b>	
<b>Date:</b> 5/11/2021	<b>Inspected By:</b> Justine Geddes	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-155 - BROAD COVE BROOK BRIDGE, NO. 1		
<b>Route:</b>		<b>Overall Length:</b>	12 m
<b>Year Built:</b>	1965	<b>Est: Yes</b>	<b>Overall Width:</b> 7.9 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 7.3 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	1.7 m
<b>Type of Structure:</b>	03 - Reinforced Concrete Beam/Slab	<b>Max Depth of N.W.L.:</b>	0.3 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	1	8
<b>Alignment Vertical:</b>	02 - Adequate	2	0
<b>Alignment Horizontal:</b>	02 - Adequate	3	0
<b>Restrictions:</b>	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	Cracking, showing small areas of scour		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	Double T's strands exposed in some areas, degradation will be ongoing (cannot repair adequately). Estimate 5-10 years before this would lead to reduced load carrying capacity.		
<b>DECK</b>			
<b>Condition:</b>	P1 - Poor	<b>Curbs:</b>	P1 - Poor
<b>Hand Rail:</b>	P1 - Poor	<b>Roadway Condition:</b>	P1 - Poor

<b>Approach Rail:</b>	P1 - Poor		
<b>Comments:</b>	Several pieces of concrete rail broken off. Edges of deck are eroding, estimated 3-5 years before all rail gone due to either the deck or the rail degradation. Narrow bridge, would have to reduce to one lane if temporary barriers were needed. Asphalt has small holes due to geotechnical coring last year.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Fast, steep waterway, shouldn't be an issue hydraulically. Abutments are keyed into rock but potential to get scoured out over time.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2021	<b>Replacement Year:</b>	2022
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	This structure is at end of life, due to be replaced in 2022 with arch or box culvert structure. Sidewalks for downstream side, unlikely to be able to put sidewalks on upstream side due to property restrictions.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P1 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Tight road, with properties close on 3 sides. Rail/Road condition will need to be managed until replacement.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
<b>Category Definitions:</b>			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.